

# Artemisinic aldehyde

<b>Inchi:</b>	InChI=1S/C15H22O/c1-10-4-6-13-11(2)5-7-14(12(3)9-16)15(13)8-10/h8-9,11,13-15H,3-7
<b>InchiKey:</b>	SVAPNGMAOHQQFJ-ZGKBOVNRSA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	<chem>C=C(C=O)C1CCC(C)C2CCC(C)=CC12</chem>
<b>Mol. weight [g/mol]:</b>	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	133.20	kJ/mol	Joback Method
hf	-196.28	kJ/mol	Joback Method
hfus	25.15	kJ/mol	Joback Method
hvap	55.96	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.760		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpola	1675.00		NIST Webbook
ripola	2144.00		NIST Webbook
tb	613.18	K	Joback Method
tc	831.74	K	Joback Method
tf	311.69	K	Joback Method
vc	0.741	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.42	J/mol×K	613.18	Joback Method
cpg	553.15	J/mol×K	649.61	Joback Method
cpg	573.52	J/mol×K	686.03	Joback Method
cpg	592.59	J/mol×K	722.46	Joback Method
cpg	610.41	J/mol×K	758.89	Joback Method
cpg	627.03	J/mol×K	795.31	Joback Method
cpg	642.51	J/mol×K	831.74	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R603779&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R603779&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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